

ARC Patrol for Uniden HP-1

User Manual

Version 1.01 build 2

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ARC PATROL Q & A :

ARC PATROL is programming software and makes it very easy to add and manage favorite lists in your Uniden Homepatrol HP-1

Q. Is ARC PATROL a replacement for the Sentinel software?

A. No, Sentinel is used to update the database and firmware. ARC PATROL is used to build and manage your own favorite lists.

Q. Can I export data from ARC PATROL into other ARC file formats?

A. No, due to license restrictions we can not export to any other format then the native HP1 .hpd format

Q. Can I import ARC files?

A. Yes, you can import ARC3xx/ARC9xx/ARC XT series files.

Q. Can I backup my HP1 favorites with ARC-Patrol?

A. Yes, click the Backup button to create backups of favorites stored in the HP1.

Q. Is your software licensed by Uniden?

A. Yes. ARC PATROL contains Uniden proprietary and/or copyrighted information. Used under license.

Q. There is no comport setting in ARC PATROL?

A. Correct, all communication is done using the USB lead supplied with the HP-1. ARC PATROL will automatically detect the HP-1.

Q. Can I use my existing RadioReference subscription to import data?

A. Yes, just like any other ARC program you can import data using the Webservice and import and create your own conventional and trunk systems.

Q. When I select a new Favorite List that I uploaded the HP-1 asks me if I want to use location control, what do I select?

A. Select 'NO' , at this moment ARC-PATROL does not support geo tagging.

Q. Can I edit the built-in HP-1 database?

A. Yes you could do that with ARC-PATROL but we advise to use favorite lists instead since the built in database is synchronized by Sentinel and during synchronization any custom changes you made will be lost.

Q. I created a simple conventional favorite list but it is not scanning?

A. Make sure that you enabled the correct 'Service' types. Before you can scan frequencies you must assign them to a service type and make sure the service type is enabled.

Q. Can I change the order of Favorite lists?

A. Yes, select Scanner HP1 _ Edit Favorites Configuration. Now you can move lists, sort and rename them.

Q. I Want to search a range of frequencies, how can I do that?

A. In ARC PATROL select Options _ Easy Fill. Now enter a start frequency and a step and ARC PATROL will fill a system with frequencies similar to a search in other scanners.

Q. How do I find latitude and longitude information?

A. ARC Patrol can assist you, select Tools _ GPS Location Search and enter an address or zip code.

1: INTRODUCTION:

ARC PATROL is a Windows software package for programming favorite lists in your Uniden HomePatrol HP-1.

System requirements:

- Windows XP/Win2000/Vista/7
- Minimum display resolution settings: VGA 1280x800
- Small Fonts
- Uniden HP-1

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ARC Quick Start Reference:

- Install the software (1.1)
- Enter the registration information (1.2)
- Connect the scanner to the PC (1.3)
- Software is now ready for use

IMPORTANT: YOU MUST ENTER A VALID REGISTRATION CODE TO MAKE FULL USE OF THE SOFTWARE. THE REGISTRATION CODE IS SEND TO YOU BY E-MAIL (IF YOU PURCHASED ONLINE) OR CAN BE FOUND IN THE CD BOX.
DO NOT LOSE THIS INFORMATION; YOU NEED IT FOR FREE UPDATES!

1.1 Software installation:

The ARC PATROL software is available as Internet download or on CD-ROM.

Win2000/XP/Vista/7 users: You must be logged on as administrator to install and use ARC PATROL.

Internet download:

The downloaded file contains all the necessary files for installation. Run the setup.exe file and the installer will automatically start. If you previously installed the software the installer will automatically update the older version. You do not need to uninstall any previous versions.

CD ROM:

Insert the CDROM; the CDROM has an auto start option that will automatically start the installation process. If the installation process does not start, simply run setup.exe

During the installation process you can set the installation directory. We suggest using the default directory. You cannot install the software on a network drive.

Software un installation:

ARC PATROL will automatically add an uninstall option. Use the Windows Control Panel for uninstalling the software. Backup your work before using the uninstall option.

1.2 Registration:

After installation of the software, the program runs in DEMO mode. You must enter a valid registration code to activate the software. The demo is functional but will only work for 7 days after installation.

Internet download: customers that purchased using the Internet download option, received a registration code by e-mail. It is VERY IMPORTANT that you store the registration code in a safe place. If you loose the registration information you must buy a new registration code.

CDROM: in the jewel case of the CDROM you find the registration information. Store the case of the CDROM in a safe place.

Enter registration:

Start the software by selecting START _ PROGRAMS _ BUTEL _ ARC PATROL _ ARC PATROL Software. After the start screen, select HELP _ REGISTER in the menu.

Enter the key1 and key2 information: the name is case sensitive!
No spaces are allowed. After entering the registration you must restart the software to enable the upload option.

1.3 Connect your HP-1:

Use the USB connection cable supplied with the HP-1 to connect the HP-1 to your PC.

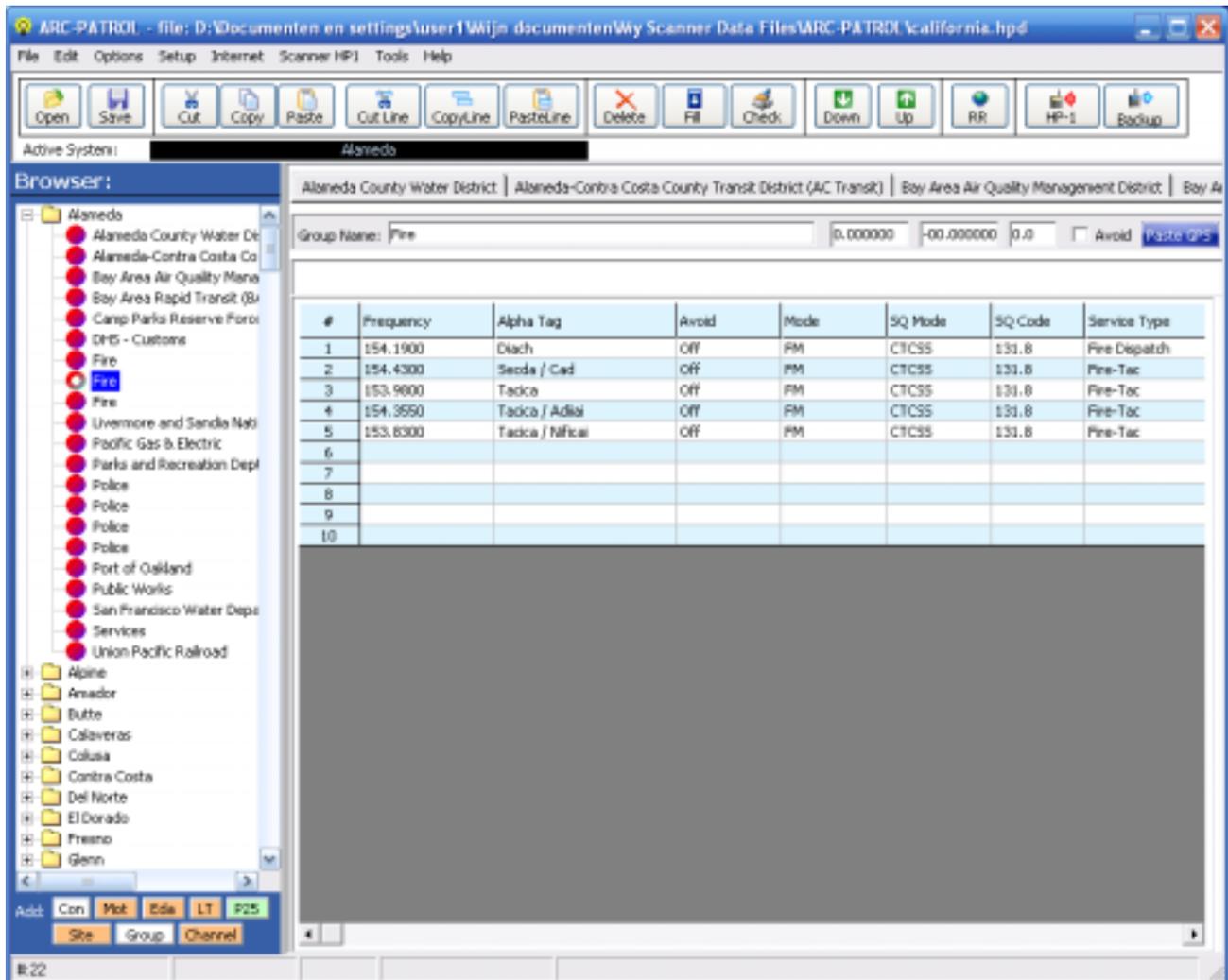


ARC PATROL will automatically detect your HP-1.

2: Using the memory channel editor:

ARC PATROL includes the most versatile memory editor available on the market.

This section describes most options available in the memory editor; in order to use the full power of the editor it is important that you read this section carefully. The editor does not require that a scanner is connected.



The memory editor has a clear layout:

The top section has a standard Windows menu bar and a toolbar. Most options found in the menu also have a 'shortcut' in the toolbar. If the mouse is moved over a toolbar button a help text is shown giving a brief description of that button.

Below the grid a dynamic help text is shown. This help text shows information about the selected item, it also shows any shortcuts that can be used.

On the left there is a tree for easy browsing the software. The tree has shortcuts to all the important section of the software.

2.1 General editor options:

You can edit data in the grid by typing in data. For example to enter a frequency click on the frequency column and type in the frequency. The software will automatically select edit mode when you type a character. Edit mode is shown by a yellow or blue background of the selected field.

You can also use function button F2 or a double click to enable edit mode.

If the data in a field is limited to 2 or more 'fixed' selections the software will automatically show a dropdown list to select the data. Most columns also support keyboard shortcuts, for example 1= On, 0= Off, F= flash etc. The help text dynamically shows the shortcuts. You will also see shortcuts to the available selections above the grid.

To correct a mistake use the Escape button, this will restore the previous data.

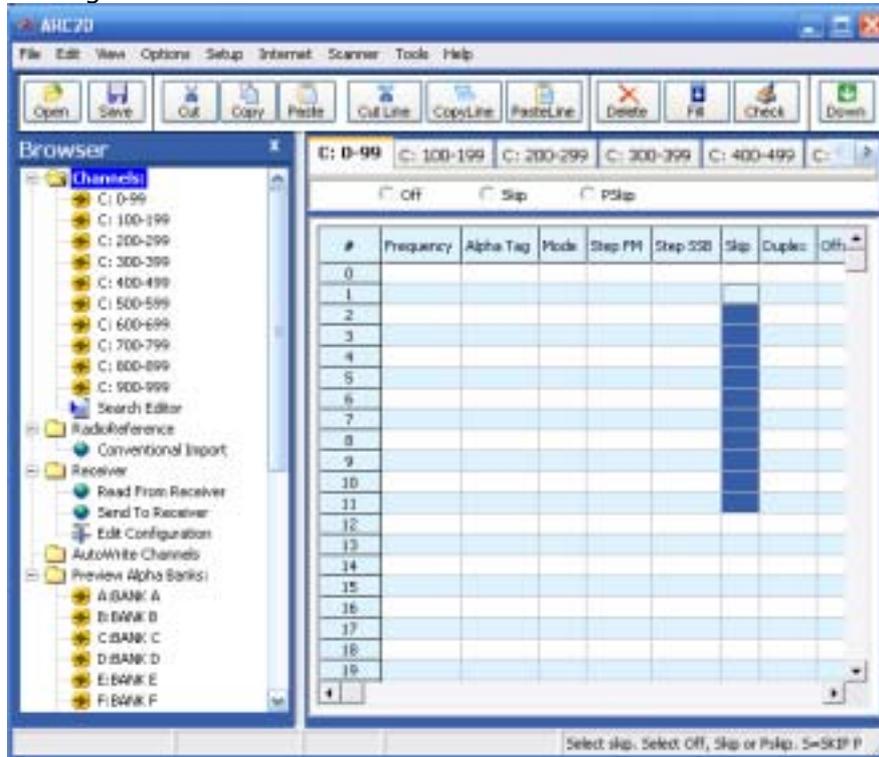
To store changes use the ENTER or TAB button. Arrows are used to navigate in the grid.

2.2 Edit multiple cells:

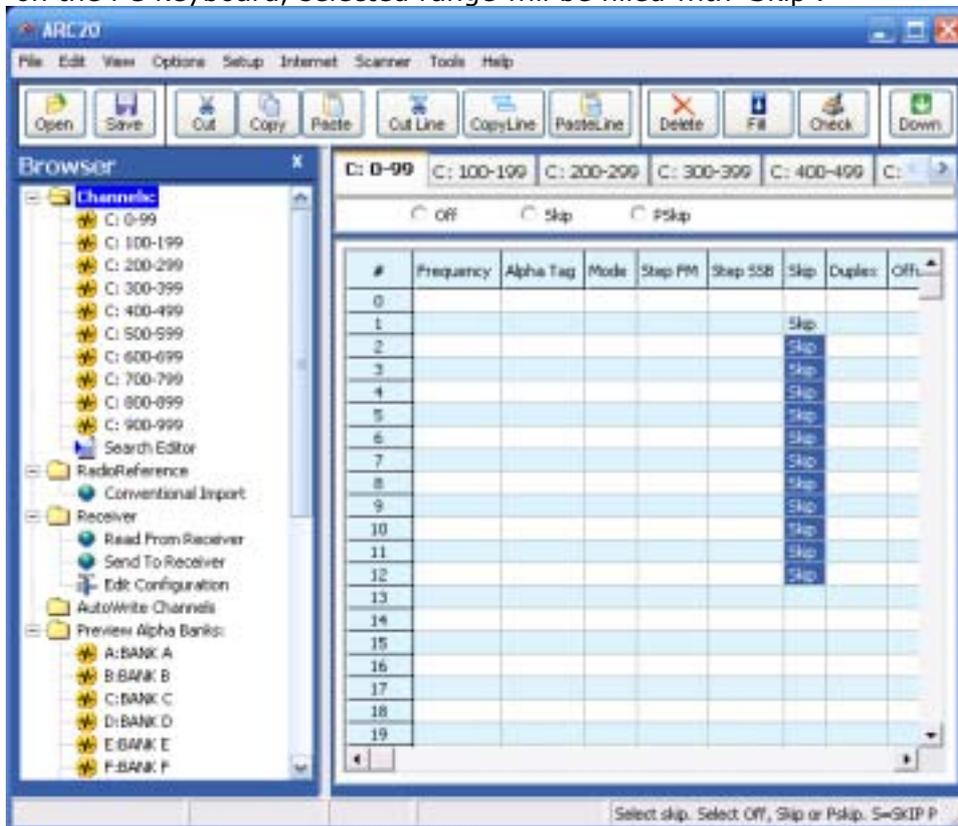
You can very easily modify or edit data in multiple cells:

Example setting Skip to On for selected range:

1. select the range:



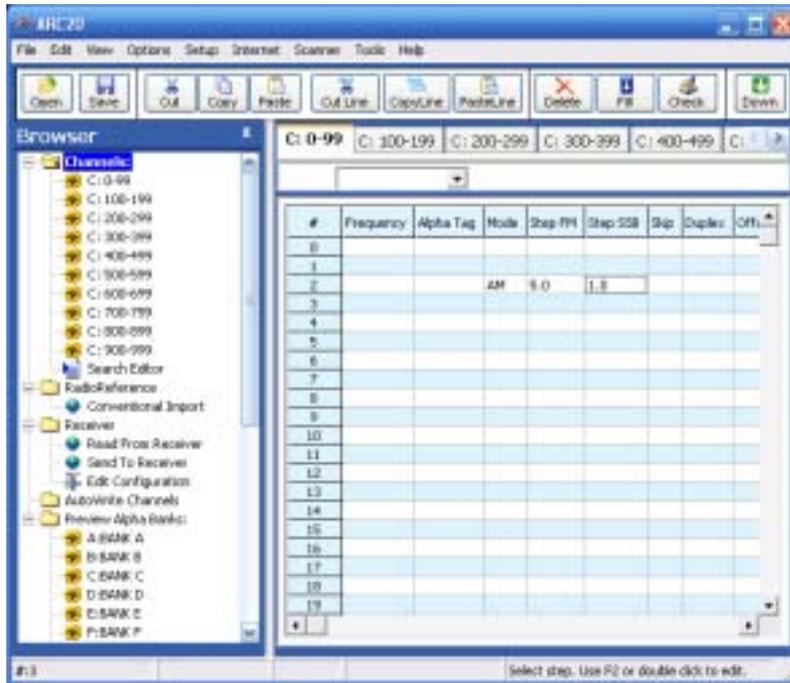
- 2: press 'S' on the PC keyboard, selected range will be filled with 'Skip':



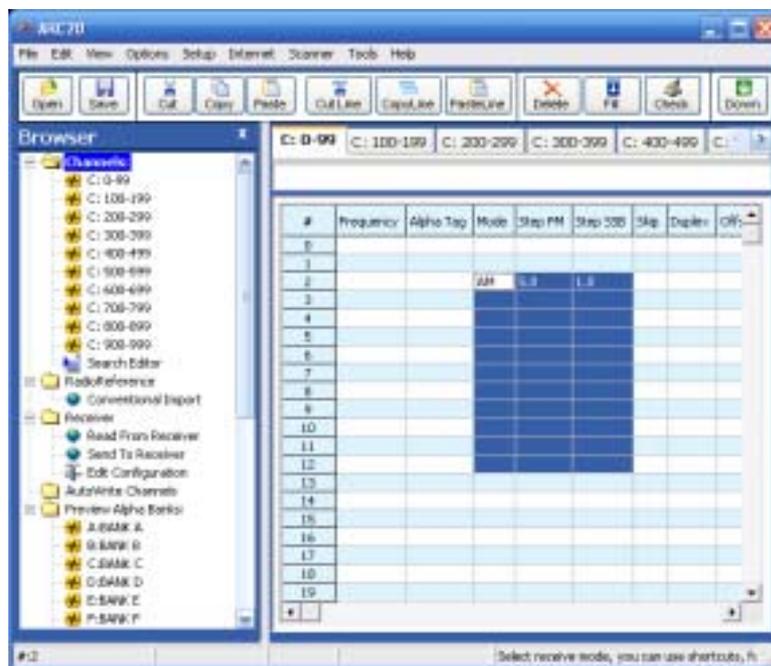
2.3 Using the FILL option:

Another powerful option is the FILL option. Fill will copy the data from the first selected row to the remaining selected rows:

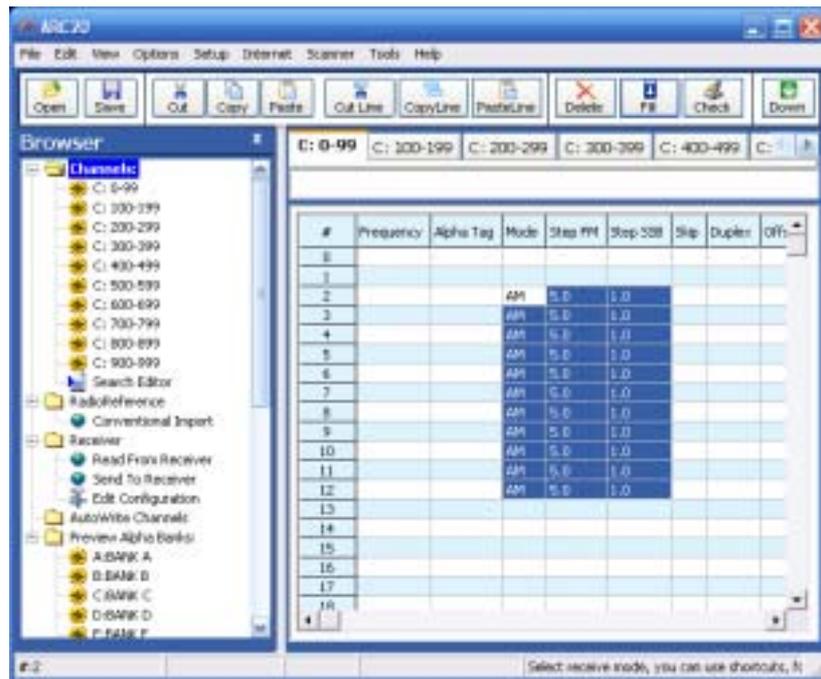
1. Program data in one row:



2. Highlight the range:



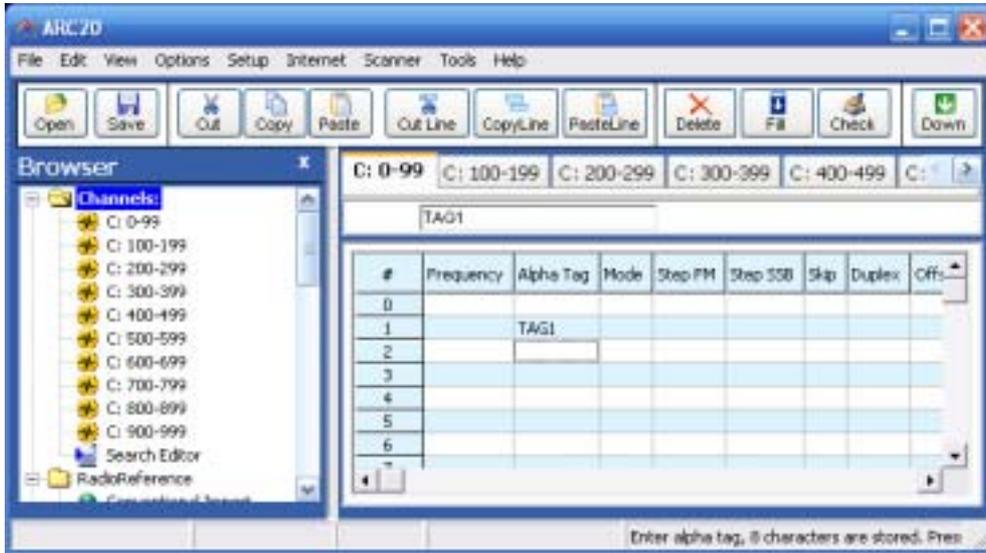
3. Press the 'FILL' in the Toolbar:



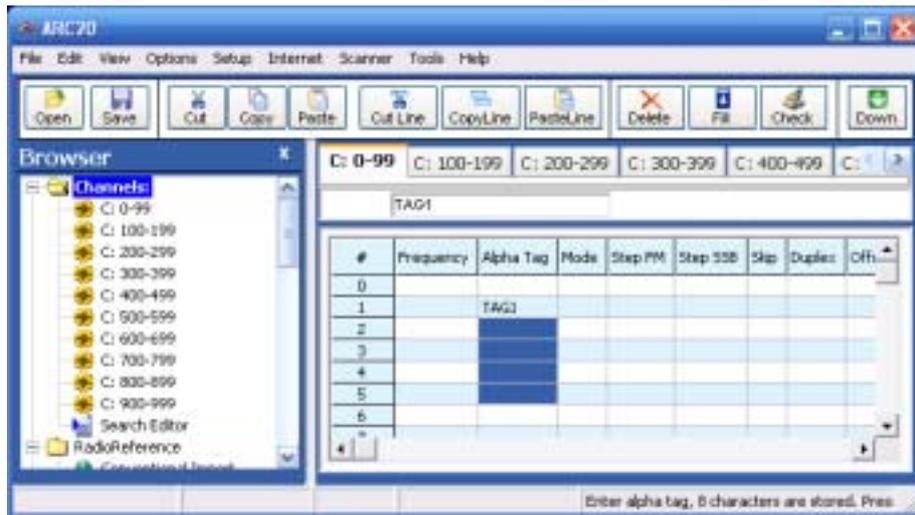
2.4.1 Using the FILL SERIES option for ALPHA tag columns:

Another powerful option is the FILL SERIES option. Fill series will copy the data from the first selected Alpha tag row to the remaining selected rows and automatically increase the number:

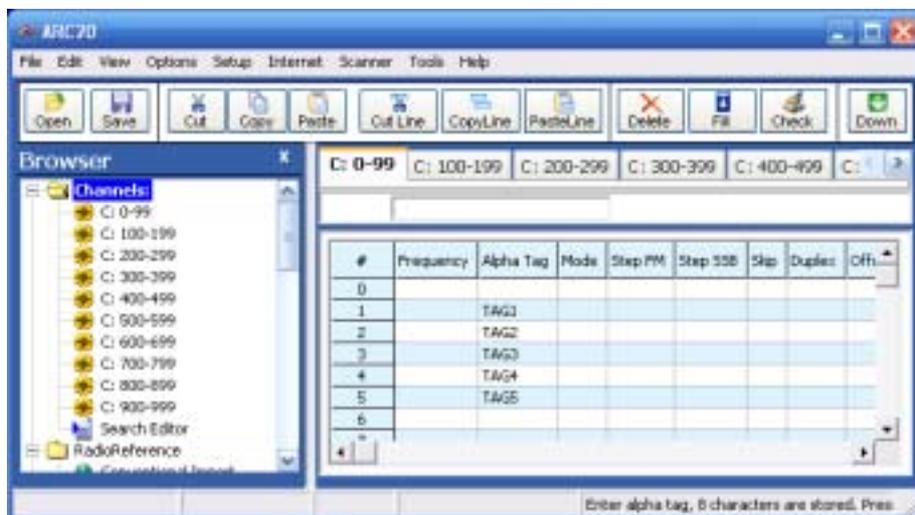
1. Program data in one row:



2. Highlight the range:



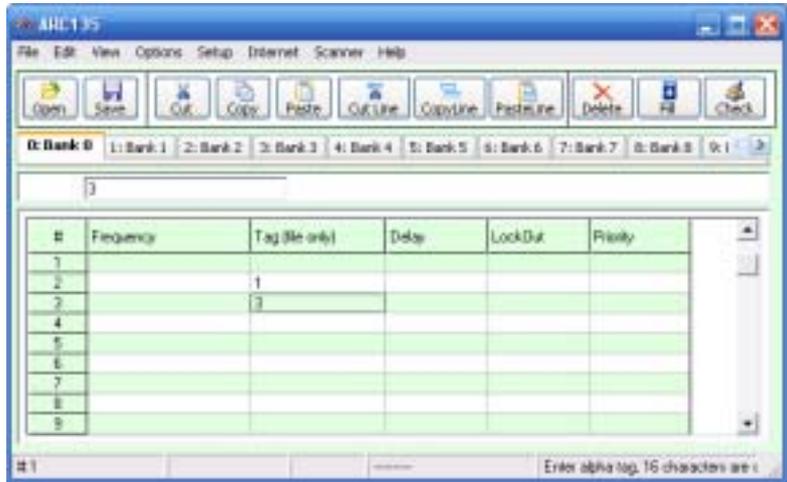
3. Select Options _ Fill Series:



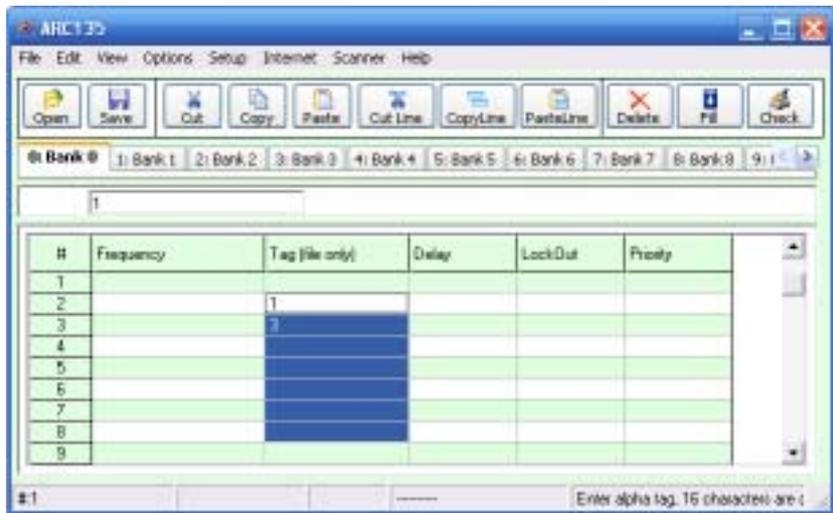
2.4.2 Using the FILL SERIES option with step:

Another powerful option is the FILL SERIES option. Fill series will copy the data from the first selected Alpha tag row to the remaining selected rows and automatically increase the number:

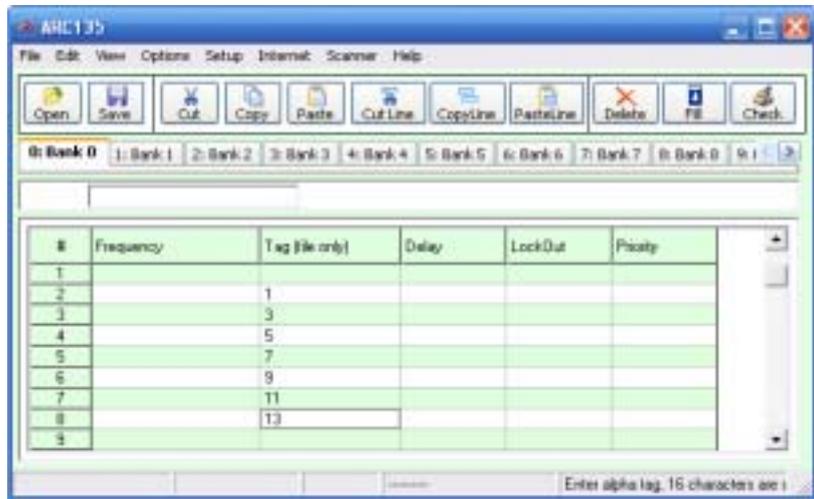
4. Program data in two rows:



5. Highlight the range:



6. Select Options _ Fill Series:



2.5 Using the clipboard

In the memory editor grid you can use the standard Windows clipboard options. In the toolbar shortcuts are available for cut, copy and paste options. You can also use the keyboard shortcuts CTRL C, CTRL X and CTRL V. Use these options to paste data from other applications like Excel or within the object grids.

An additional clipboard option is available that will automatically select entire lines (Cut line, copy line and paste line).

To use these extra options, click any cell of a memory channel then select cut/copy/paste line. To paste in a different memory channel, select any cell in that memory channel, then select paste line, ARC PATROL will automatically align the pasted text.

Important: while pasting data make sure the data is valid for the column you want to paste data. Example: you cannot paste WFM in the step column.

2.6 Keyboard shortcuts:

Most columns also support keyboard shortcuts, for example:

0= Off
1= On
F= Off
N= On
S= Skip
F=Flash
A = AM
F = FM
C= CTCSS

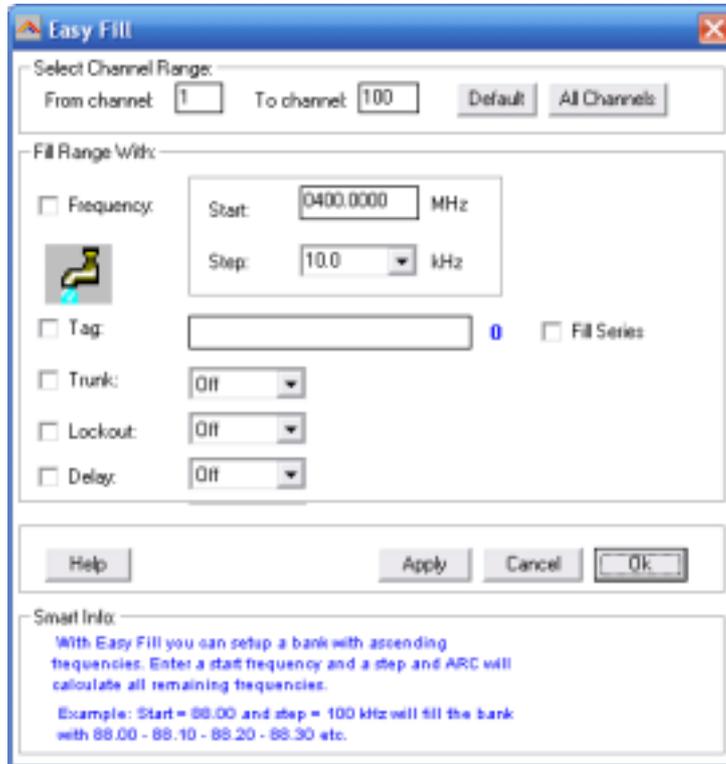
See dynamic help text in the software for more information.

2.7 EasyFill

EasyFill is a simple but powerful option that lets you program data in a range of channels with only a few mouse clicks.

Additionally you can use EasyFill for quickly program a range of frequencies in a memory bank so you can use a memory as a search bank.

Select EasyFill from the Options menu or use the EasyFill toolbar button to display the EasyFill window:



In the top frame the channel range is selected. DEFAULT will set the start and end channel of the selected bank.

In the 'Fill Range With' frame you select the data you want to program in that range. If you want to set the mode for all selected channels to WFM select the MODE check box then select WFM and select APPLY, this will program WFM in all selected channels. You can select more than one check box.

If the Frequency check box is selected you can set a start frequency and a step. The software will automatically calculate the frequencies for the selected channel range.

Example: Frequency is set to 88.000 MHz, step is set to 50 kHz and channel range is 1-100. If you select APPLY the software will program 88.000 in channel 1, 88.050 in channel 2, 88.100 in channel 3 etc.

Fill series: for the TAG option you can also set the fill series option. Fill series will search for a number in the tag and use that number to 'calculate' the tags in the selected channel range.

Example: in the tag box the tag is set to 'Police 1'. The channel range is set to 1-100.

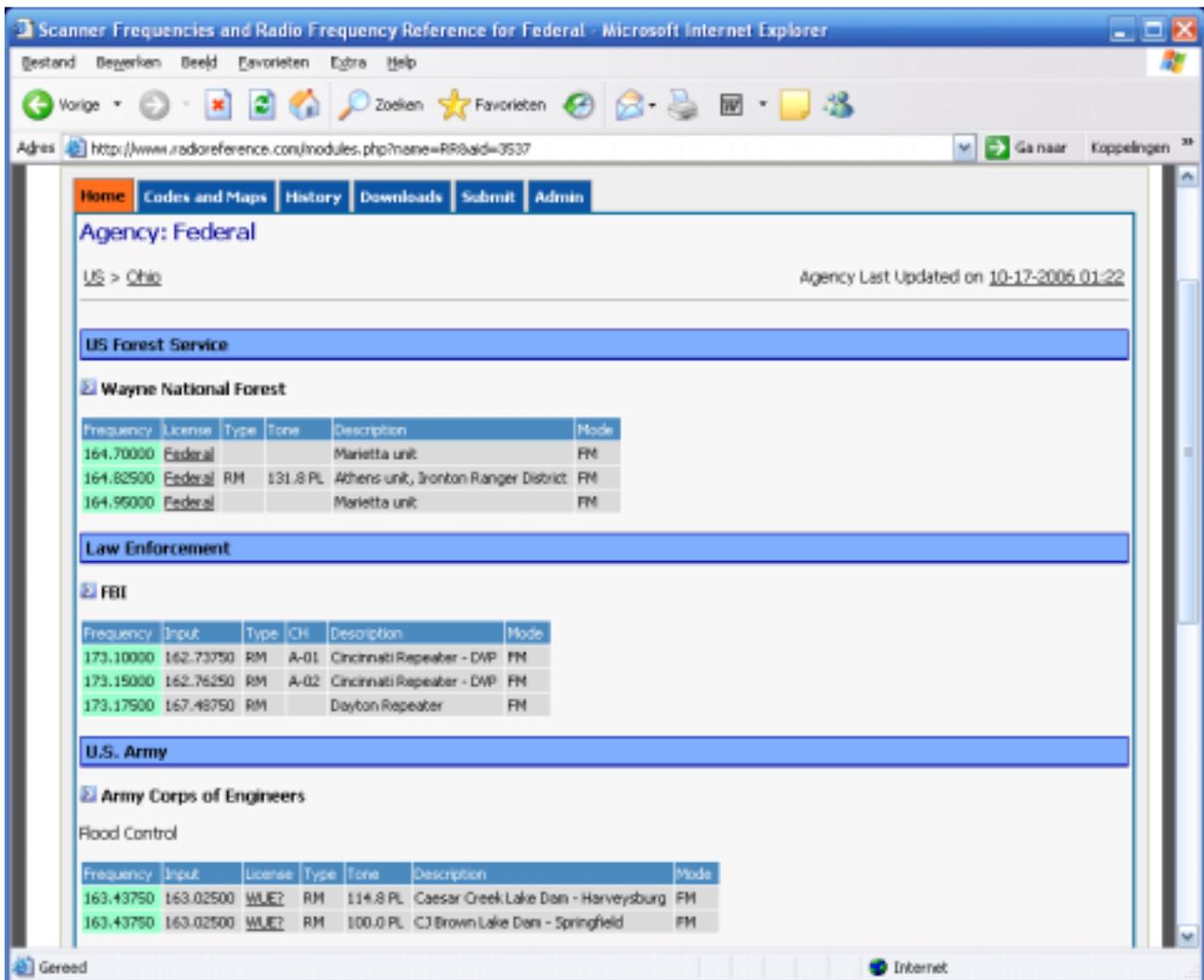
If fill series is selected, the software will automatically program 'Police 1' in channel 1, 'Police 2' in channel 2, 'Police 3' in channel 3 etc. See also section 2.9.

The number of characters of the tag box is shown in blue.

2.8 Using Paste Frequencies for importing frequencies of the internet:

With ARC PATROL you can very easily import frequencies from any website.

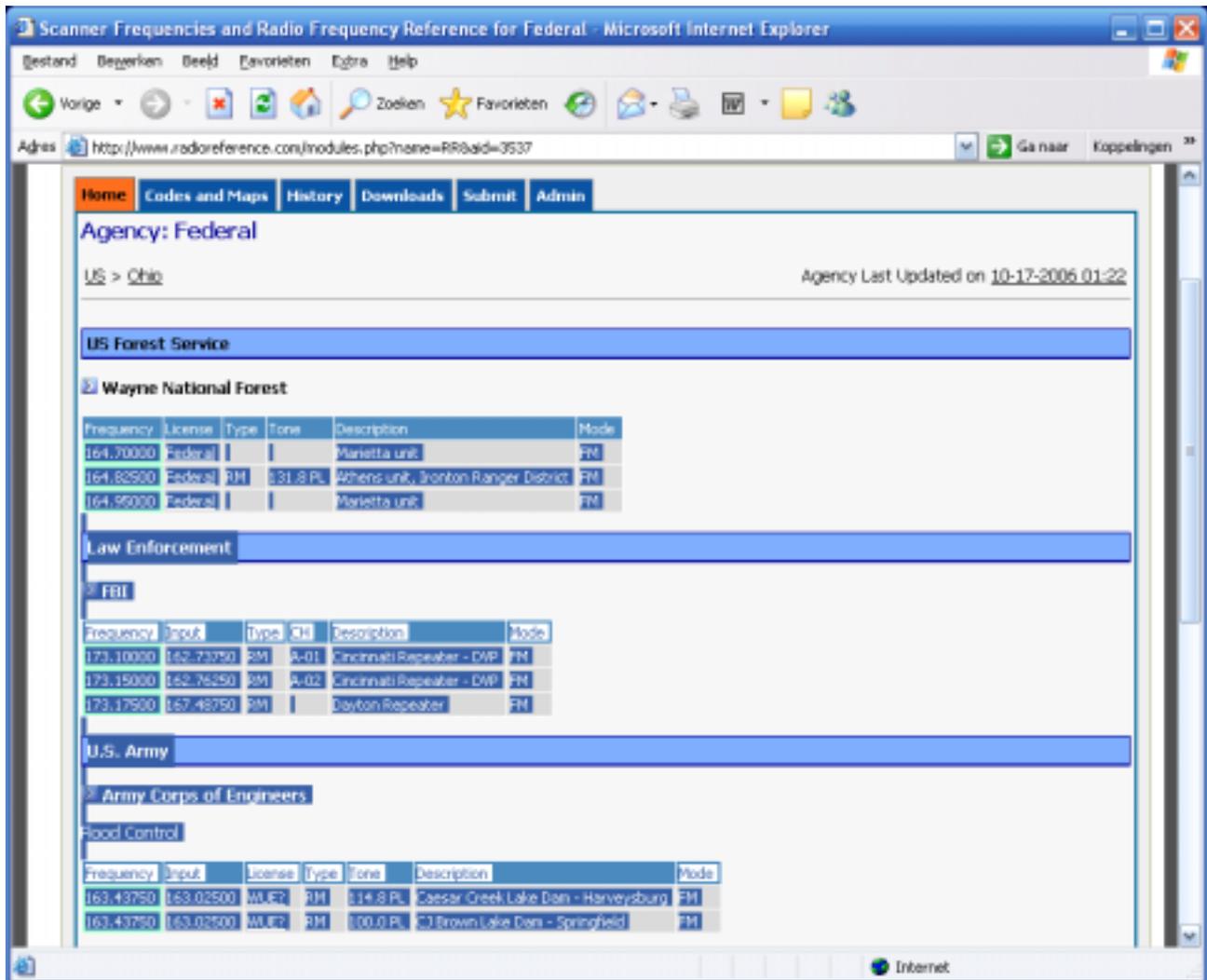
- Start the ARC PATROL software
- Open you internet browser and open a website displaying frequencies you want to import , for example:



The screenshot shows a Microsoft Internet Explorer browser window with the address bar displaying <http://www.radiorreference.com/modules.php?name=RR&id=3537>. The website content is organized into sections for different agencies:

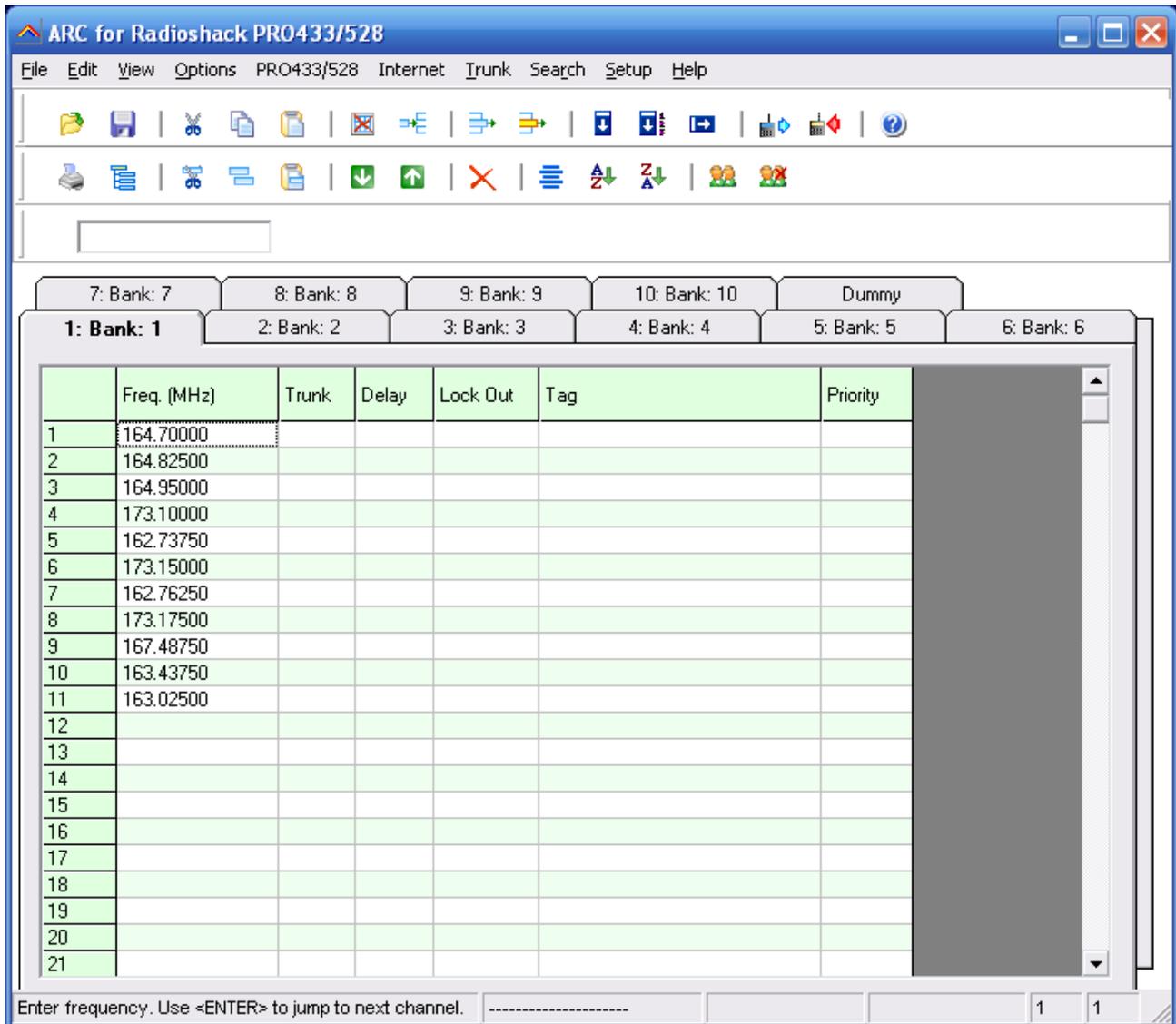
- Agency: Federal**
 - US > Ohio (Agency Last Updated on 10-17-2006 01:22)
 - US Forest Service**
 - Wayne National Forest**
 - Table with columns: Frequency, License, Type, Tone, Description, Mode.
 - 164.70000 Federal (Description: Marietta unit, Mode: FM)
 - 164.82500 Federal RM 131.8 PL (Description: Athens unit, Ironton Ranger District, Mode: FM)
 - 164.96000 Federal (Description: Marietta unit, Mode: FM)
 - Law Enforcement**
 - FBI**
 - Table with columns: Frequency, Input, Type, CH, Description, Mode.
 - 173.10000 162.73750 RM A-01 (Description: Cincinnati Repeater - DWP, Mode: FM)
 - 173.15000 162.76250 RM A-02 (Description: Cincinnati Repeater - DWP, Mode: FM)
 - 173.17500 167.48750 RM (Description: Dayton Repeater, Mode: FM)
 - U.S. Army**
 - Army Corps of Engineers**
 - Flood Control
 - Table with columns: Frequency, Input, License, Type, Tone, Description, Mode.
 - 163.43750 163.02500 WUE2 RM 114.8 PL (Description: Caesar Creek Lake Dam - Harveysburg, Mode: FM)
 - 163.43750 163.02500 WUE2 RM 100.0 PL (Description: CJ Brown Lake Dam - Springfield, Mode: FM)

- In your browser highlight the area (hold down right mouse button and move mouse) you want to import:



- Now in your browser press CTRL – C (or select EDIT _ COPY from the top menu)
- Now go to ARC PATROL and click in the frequency column

- Click the right mouse button and select 'Paste Frequencies':



2.9 Import/Export data:

ARC PATROL can import data from various sources:

- import CSV data
- import using the clipboard: you can easily copy/paste data from Excel or other database software that supports the clipboard
- import frequencies from text/html/csv files. Use the Import CSV file option in the file menu.
- import directly from the Radioreference.com database.
- Import ARC396/330/396/XT system files

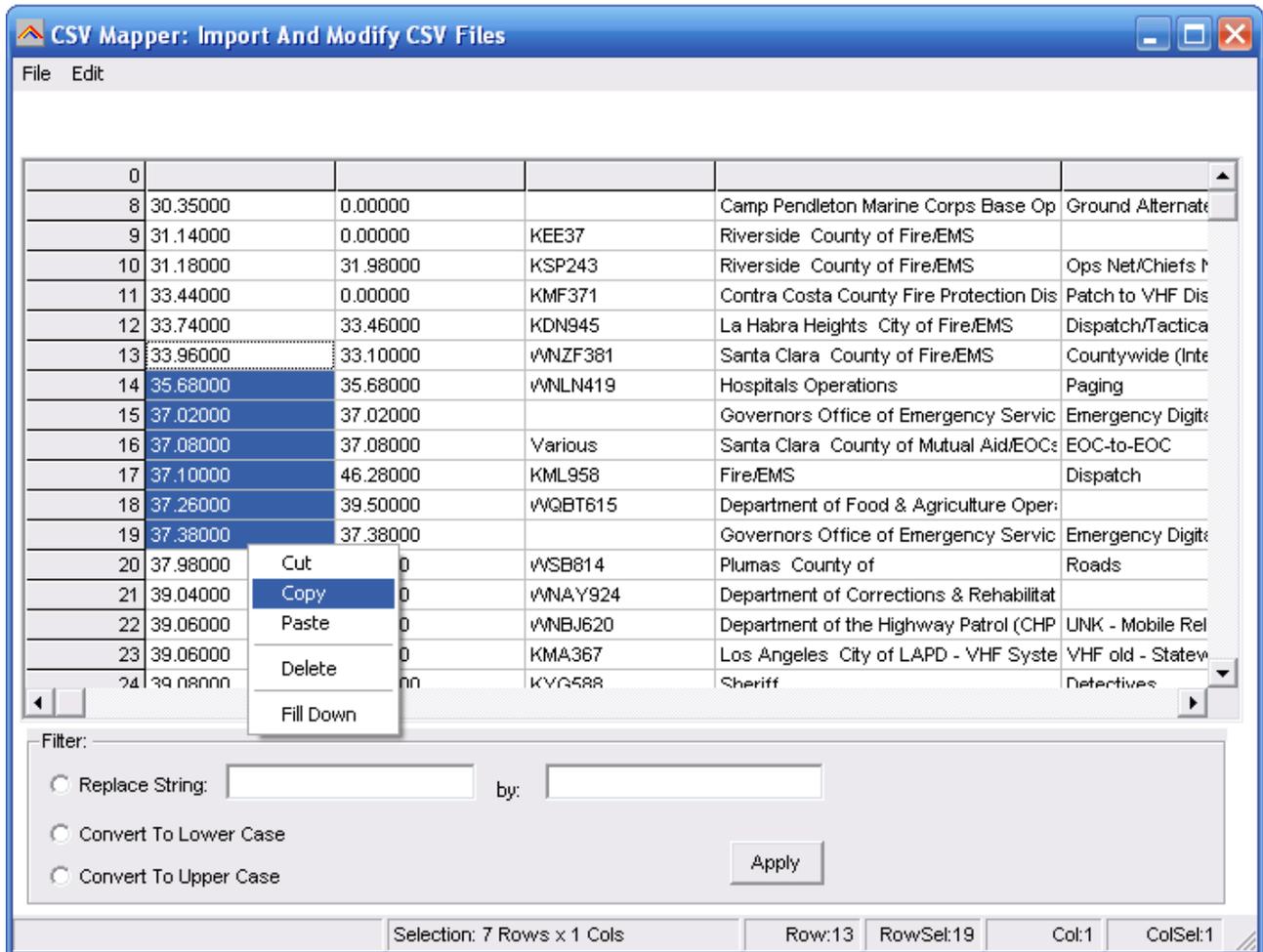
ARC PATROL can not export data:

- Due to license restrictions we can not export to any other format then the native HP1 .hpd format

2.10 Import CSV files:

Select FILE _ IMPORT _ IMPORT CSV FILE. A new window is shown.

Select File _ Open CSV file and browse for the CSV or text file that you want to import. The contents of the file will be shown in the grid. You can now simply copy data from this grid into the main editor grid:



You can make changes in the grid by using a double click.

You can use copy/paste option.

The right mouse button will show a popup menu (see screenshot).

Below the grid you find filter options, use these filter options to replace strings and convert data to lower or upper case. To use the filter options you must first highlight items in the grid by holding down the left mouse button.

Sort: you can double click the column headers to sort the grid by frequency etc.

2.11 Checking for software updates

For your convenience the software can check if a newer version of the ARC PATROL software is available (internet connection required).

Select HELP _ CHECK FOR UPDATES.

The software will show a message if a newer version is available and automatically open the download website.

2.12 Sorting Data:

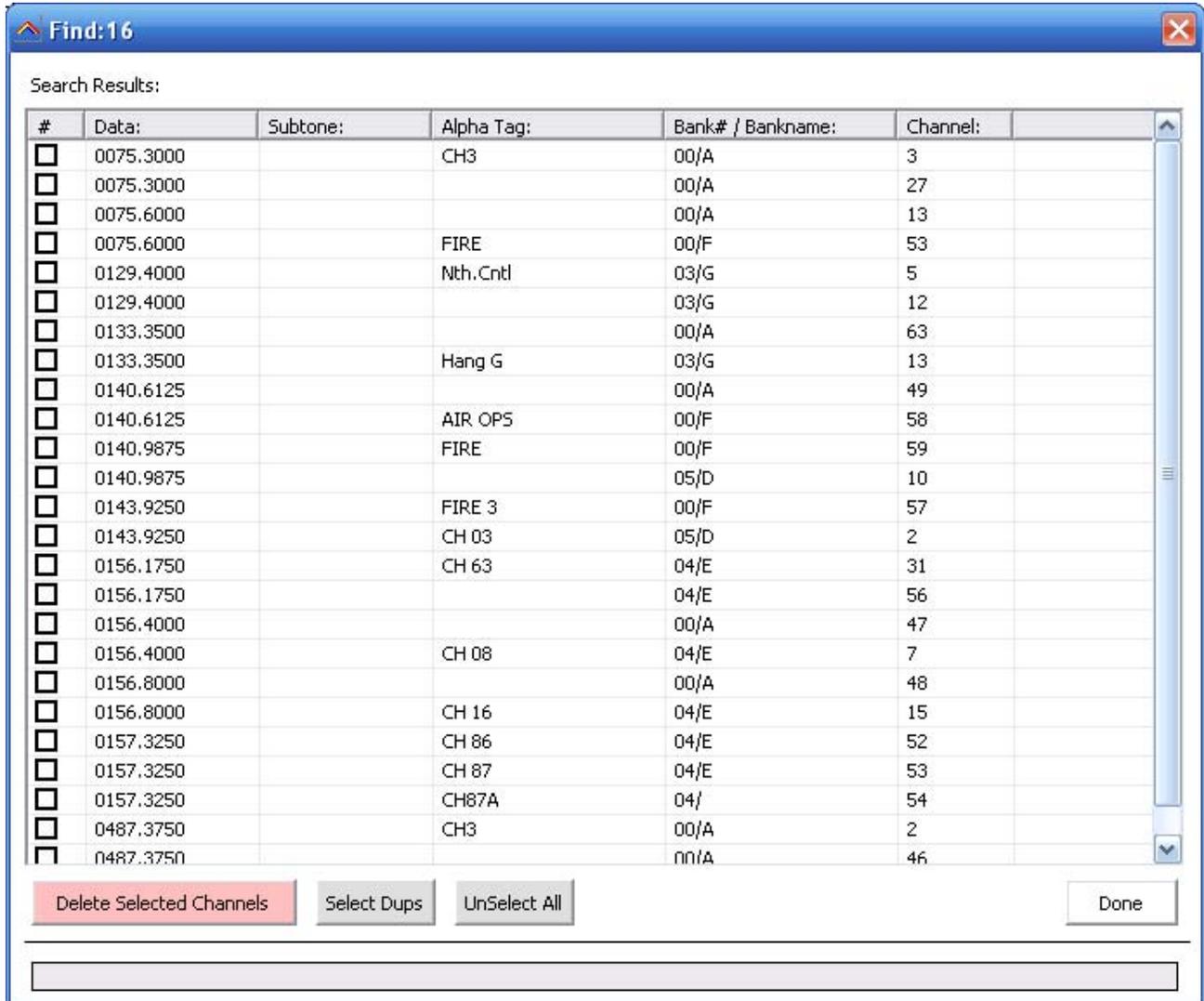
You can sort data by double clicking the header of the editor grid. Data will be sorted by the selected column.

2.13 Find/Remove duplicates:

You can check for duplicates in the current bank or in all banks.

Select Options _ Find Duplicates _ In Current Bank/ All banks. You can also include the subtone.

A new window is shown with the result of the duplicate search:

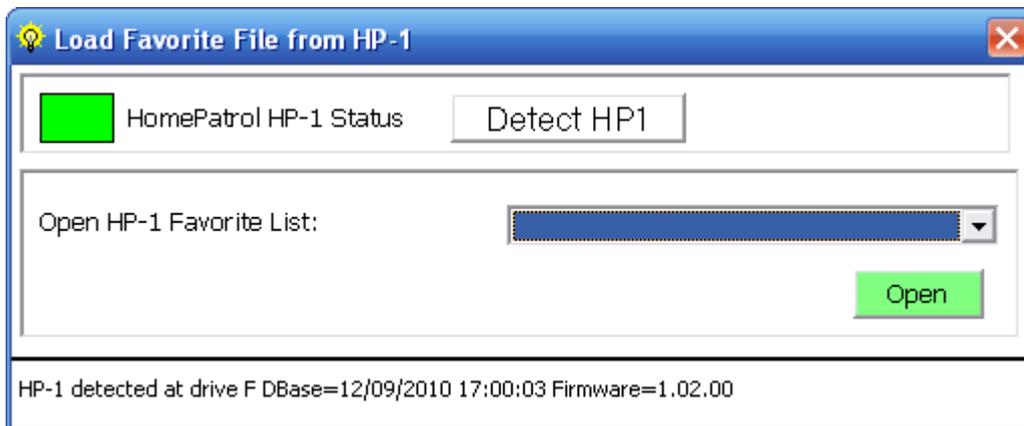


The results are sorted by frequency. You can delete duplicates by ticking the box in front of the frequency. Select Dups automatically selects the duplicate frequencies.

2.14 Read data from receiver:

To edit/read the favorite lists stored on your HP-1 select Scanner HP-1, Read Data or use the toolbar icon or press F5.

The software will now try to detect the scanner. If not connected plug the USB cable in the HP-1 and a free USB port.



The software will list all the Favorite lists stored in the HP-1. Select the favorite list and then press Open. This will copy the selected favorite list into ARC PATROL.

2.15 Send data to Scanner:

After you created HPD/Favorite files you can send them to the HomePatrol HP-1.

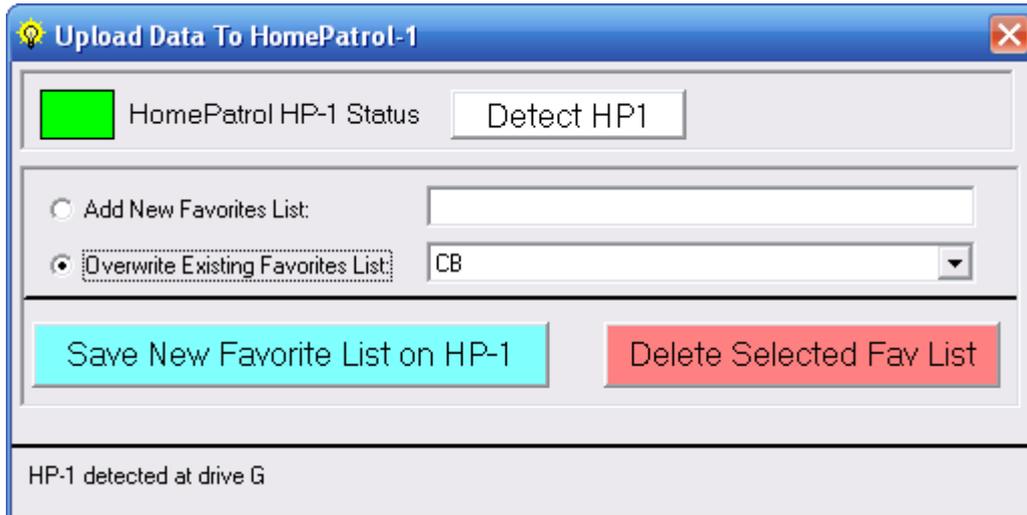
1. Load the HPD file in ARC PATROL
2. Connect the HP1 to your PC using the USB cable supplied with the HP-1
3. The HP1 display will turn white/gray
4. In ARC PATROL select SCANNER HP1 _ UPLOAD TO HP1 FOLDER



If ARC PATROL detected your scanner the Status indicator is green. Now enter a name for the new Favorites List:



Or select an existing Favorite list to overwrite:



WARNING: DATA stored in the existing file will be deleted and overwritten!

Now press the blue 'SAVE NEW FAVORITE LIST ON HP-1 BUTTON'. This will store the new file on the HP-1.

2.16 How to scan the new favorite list:

- disconnect the scanner from the PC
- the scanner will now restart
- using the touchscreen select:
 - MENU
 - MANAGE FAVORITE LISTS
 - Select the FAVORITE LIST that you just uploaded
 - Press 'Use this List'
 - Confirm the message by pressing YES
 - The scanner will now prepare for scanning the file.
 - If the HP1 displays a warning that no channels are matching you must select the service type.
 - Press 'SERVICE' and select at least one Service type. Available service types are shown in white text. Press ACCEPT. The scanner will now prepare for scanning the file and after a few seconds start scanning the new file.

3 RadioReference Database import

ARC can import frequencies directly from www.radioreference.com , RadioReference is the largest and most accurate scanner database in the world.

For information about the database check out: <http://www.radioreference.com>

IMPORTANT: To use the RadioReference import option you must subscribe to their services (only \$7.50 / 90 days)

IMPORTANT: you must allow the ARC software to access the internet through your firewall (port 80 only). Without access the import option will not work.

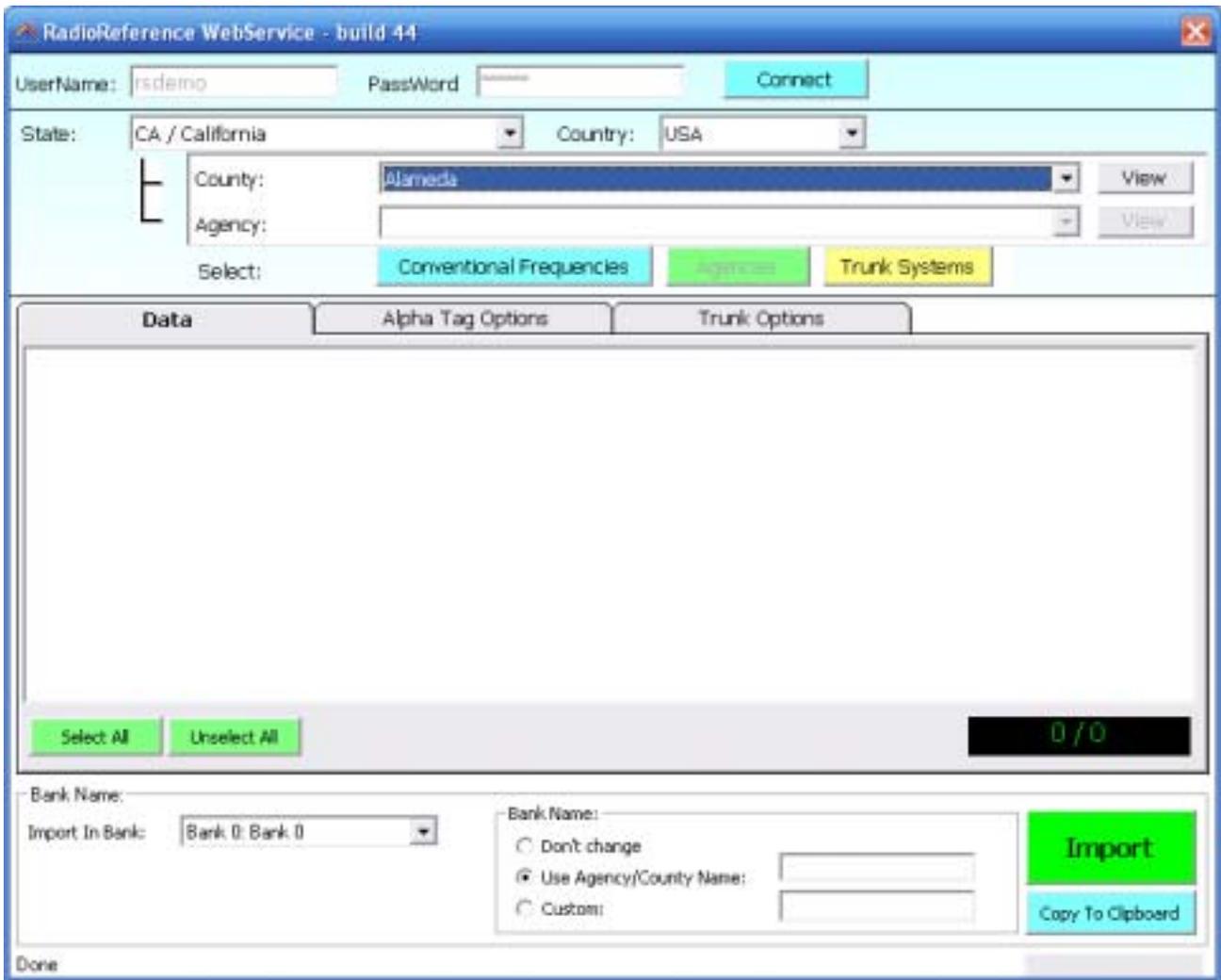
The RR import may not work properly on satellite internet connections due to latency problems. Use dialup or DSL/Cable/WAN instead.

The RadioReference subscription is not included with ARC.

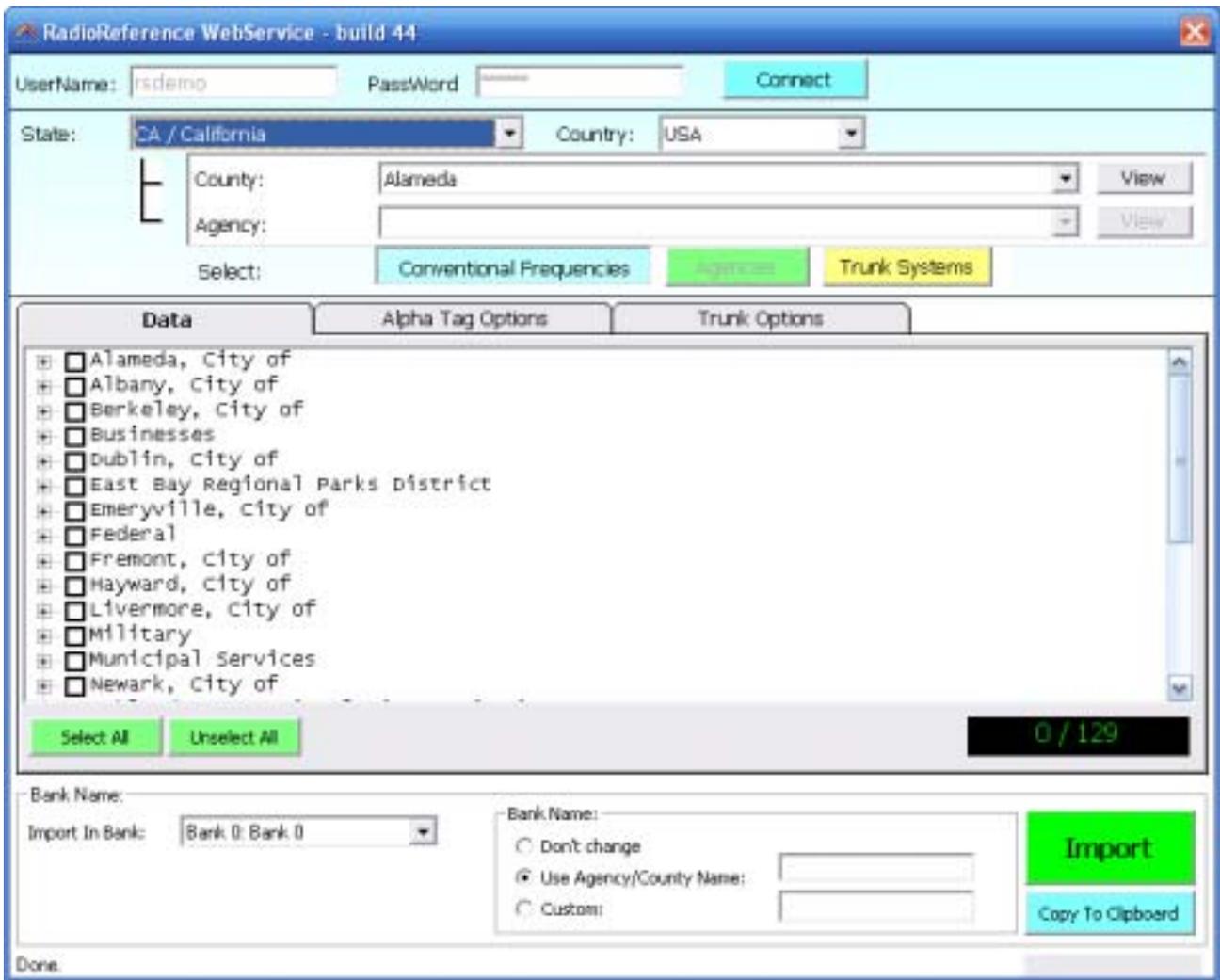
Importing conventional frequencies:

Open the RR import window and select your State. In this example we will import data from California, Alameda county:

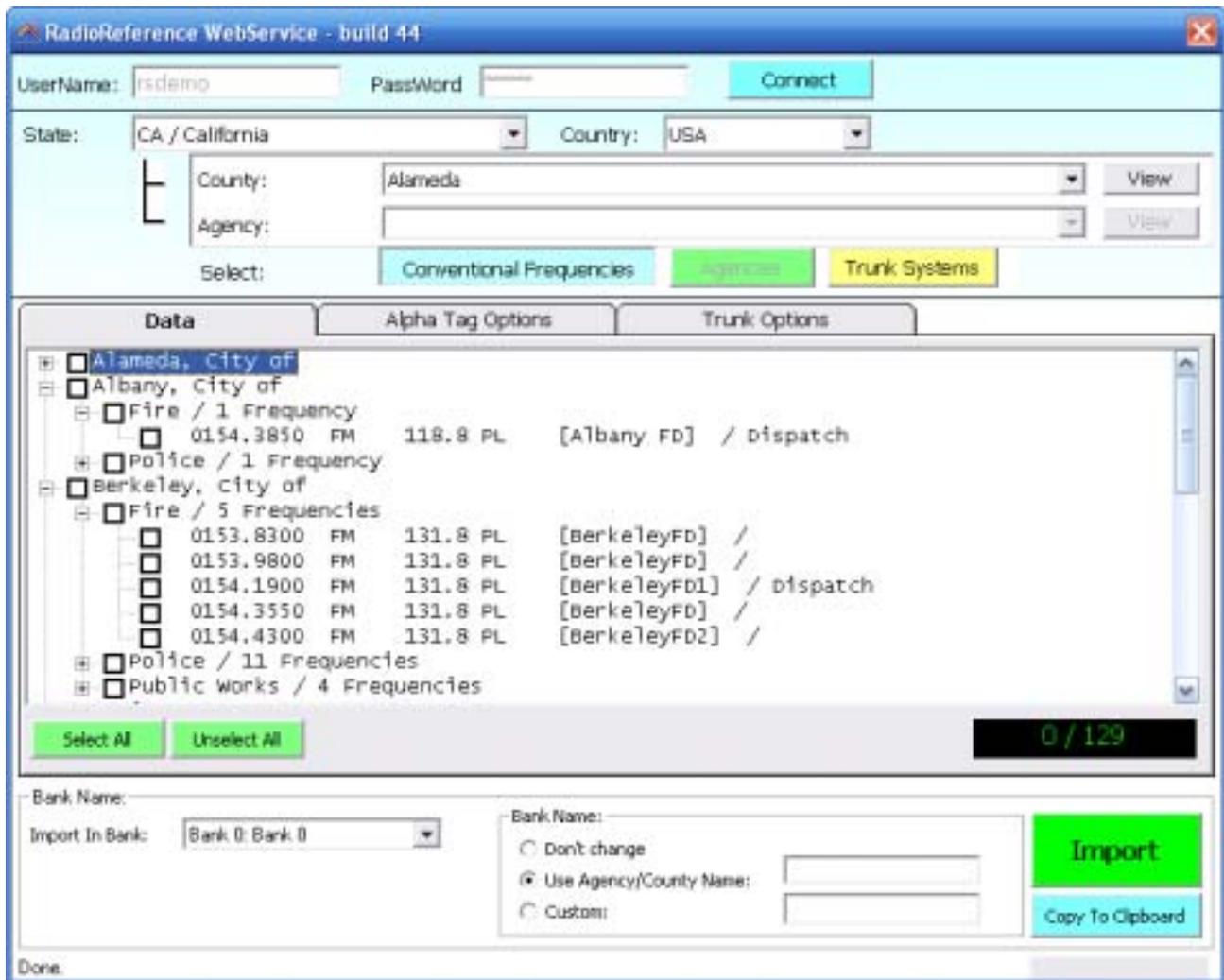
Select California. This will load the CA County list, select Alameda:



Now press the blue 'Conventional Frequencies' button. The software will now load all the frequencies from the selected county:



Use the '+' symbol to see detailed frequency info:

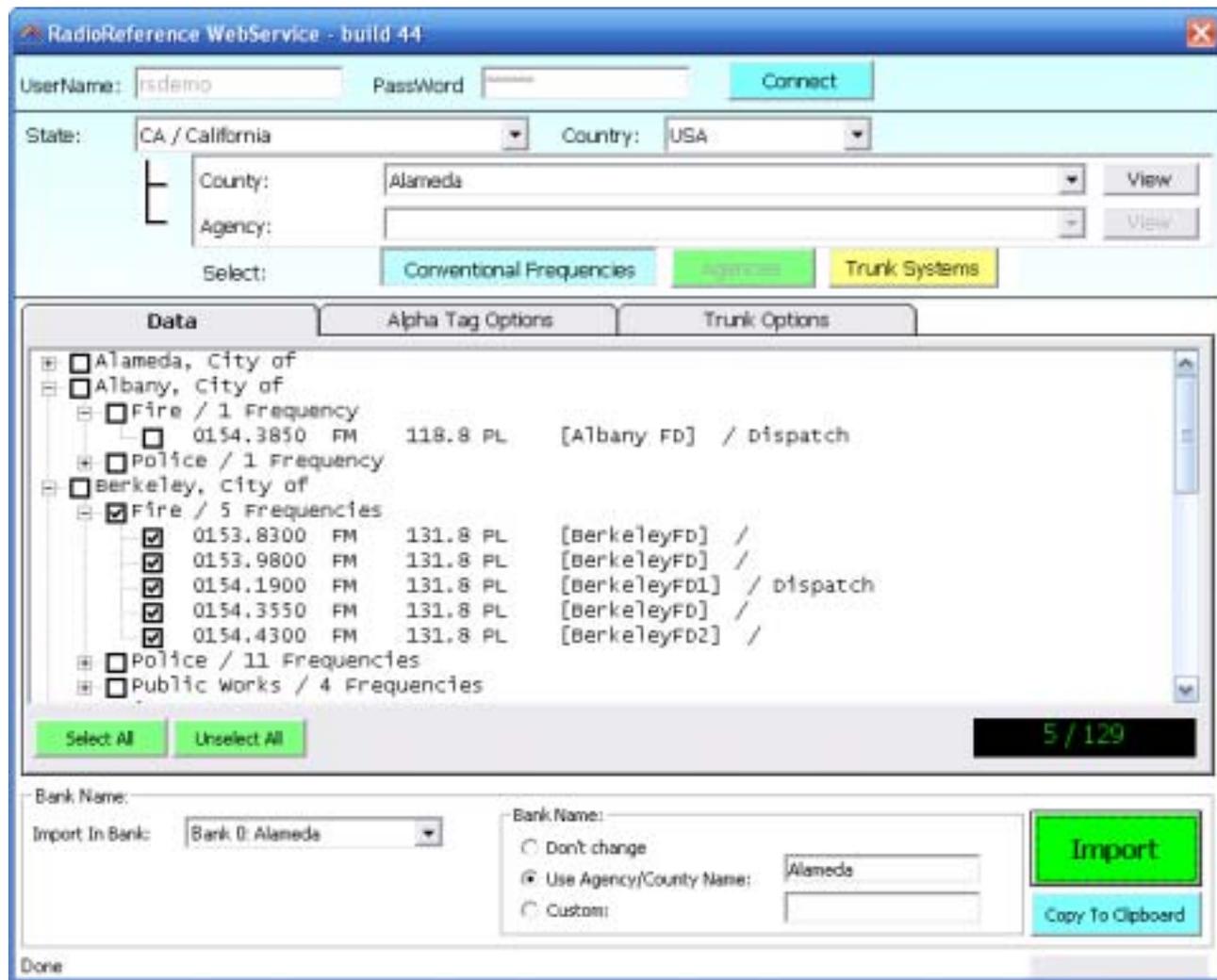


You can now select the frequencies that you want to import:

The screenshot shows the 'RadioReference WebService - build 44' application window. At the top, there are fields for 'UserName: rsdemo' and 'PassWord' with a 'Connect' button. Below this, the 'State' is set to 'CA / California' and 'Country' to 'USA'. A tree view shows 'County: Alameda' and 'Agency:' with 'View' buttons. Three buttons are available: 'Conventional Frequencies' (selected), 'Agencies', and 'Trunk Systems'. The main area has tabs for 'Data', 'Alpha Tag Options', and 'Trunk Options'. Under 'Data', a tree view lists agencies: 'Alameda, City of', 'Albany, City of', 'Berkeley, city of', 'Police', and 'Public Works'. Under 'Berkeley, city of', the 'Fire / 5 Frequencies' sub-tree is expanded, showing five selected frequencies with their details: frequency, mode, PL, and agency name. At the bottom of this list are 'Select All' and 'Unselect All' buttons, and a status bar shows '5 / 129'. Below the main area, there are 'Bank Name' and 'Import In Bank' dropdowns, radio buttons for 'Don't change', 'Use Agency/County Name' (selected), and 'Custom', along with 'Import' and 'Copy To Clipboard' buttons. The window ends with a 'Done.' label.

Agency	Frequency	Mode	PL	Agency Name
Alameda, City of				
Albany, City of				
Fire / 1 Frequency	0154.3850	FM	118.8 PL	[Albany FD] / Dispatch
Police / 1 Frequency				
Berkeley, city of				
Fire / 5 Frequencies				
0153.8300	FM	131.8 PL	[BerkeleyFD] /	
0153.9800	FM	131.8 PL	[BerkeleyFD] /	
0154.1900	FM	131.8 PL	[BerkeleyFD1] / Dispatch	
0154.3550	FM	131.8 PL	[BerkeleyFD] /	
0154.4300	FM	131.8 PL	[BerkeleyFD2] /	
Police / 11 Frequencies				
Public Works / 4 Frequencies				

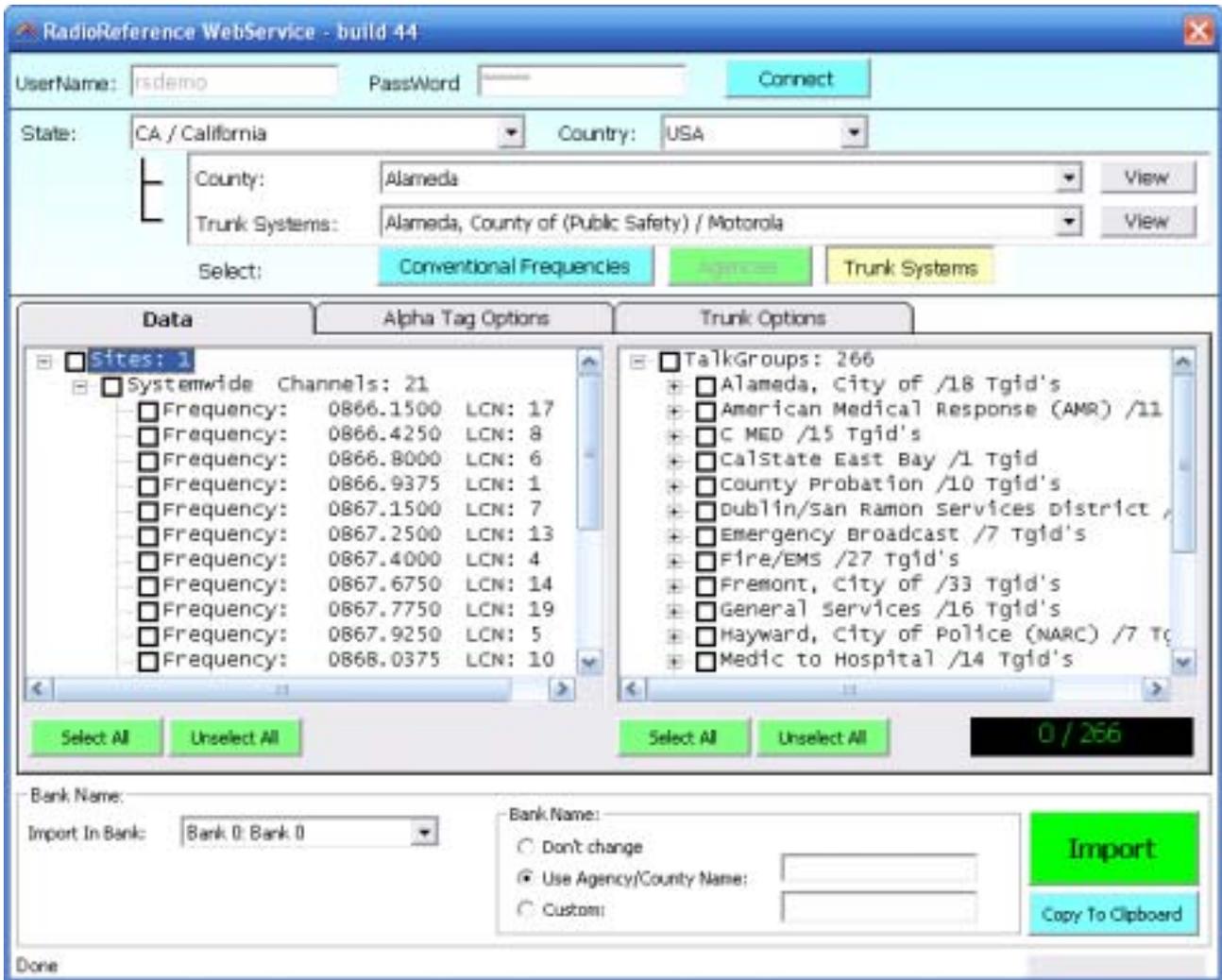
We can now import this in the software by pressing the Import button.



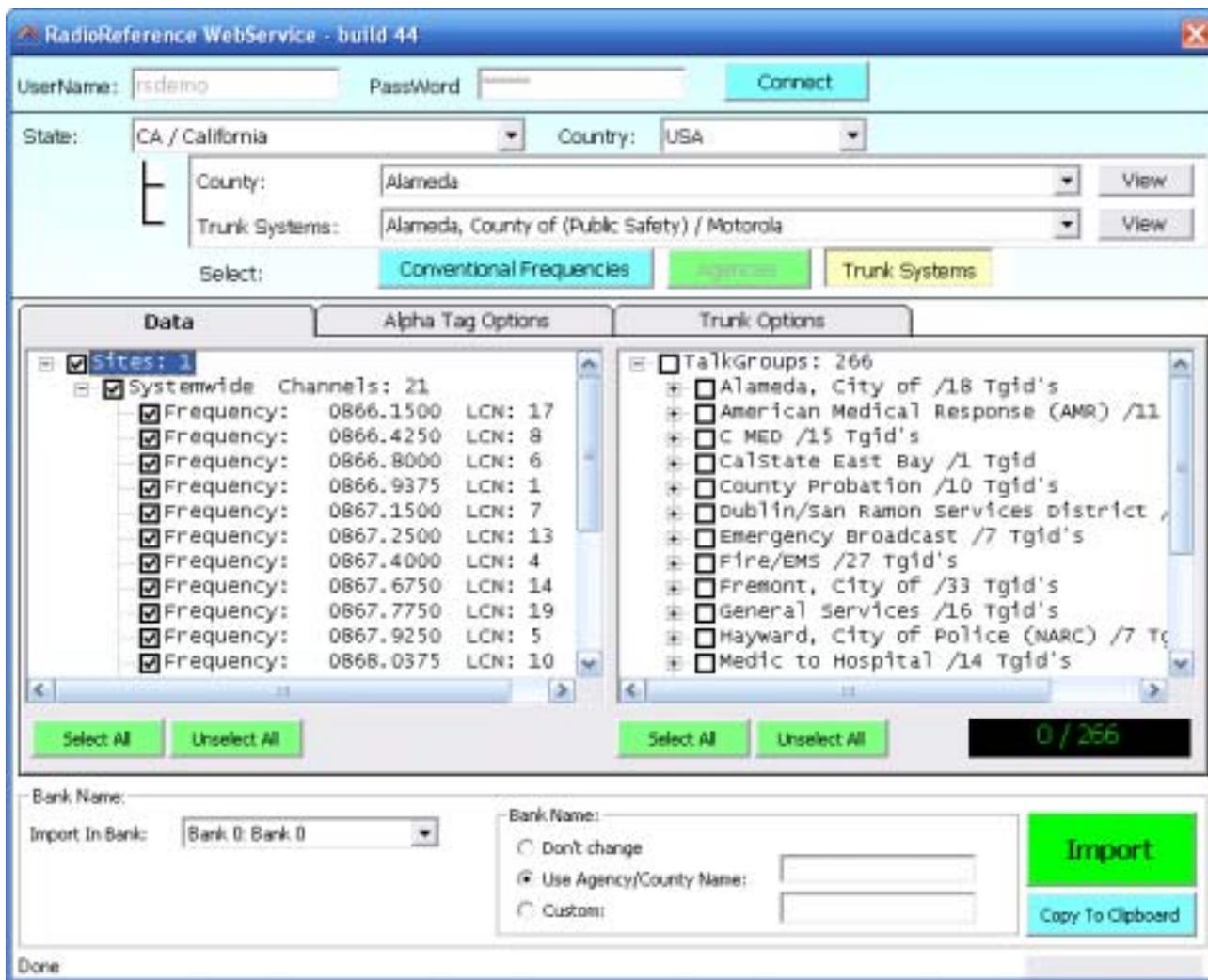
Importing Trunk Information:

In this example we selected the Alameda Public Safety trunk system:

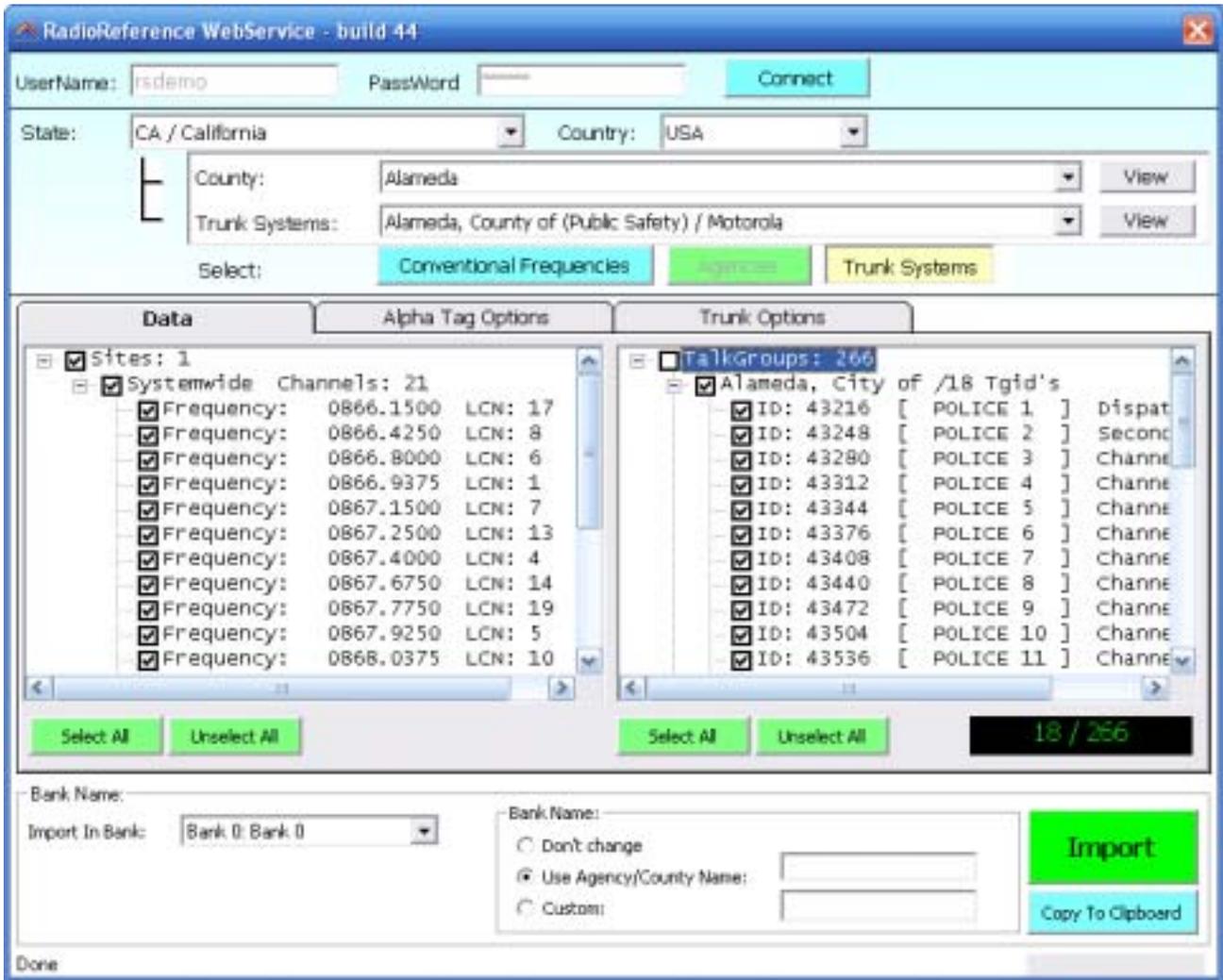
You can see the frequencies and talkgroups by clicking on the '+' symbol in the treeviews:



To import this system first select the site in the left pane:

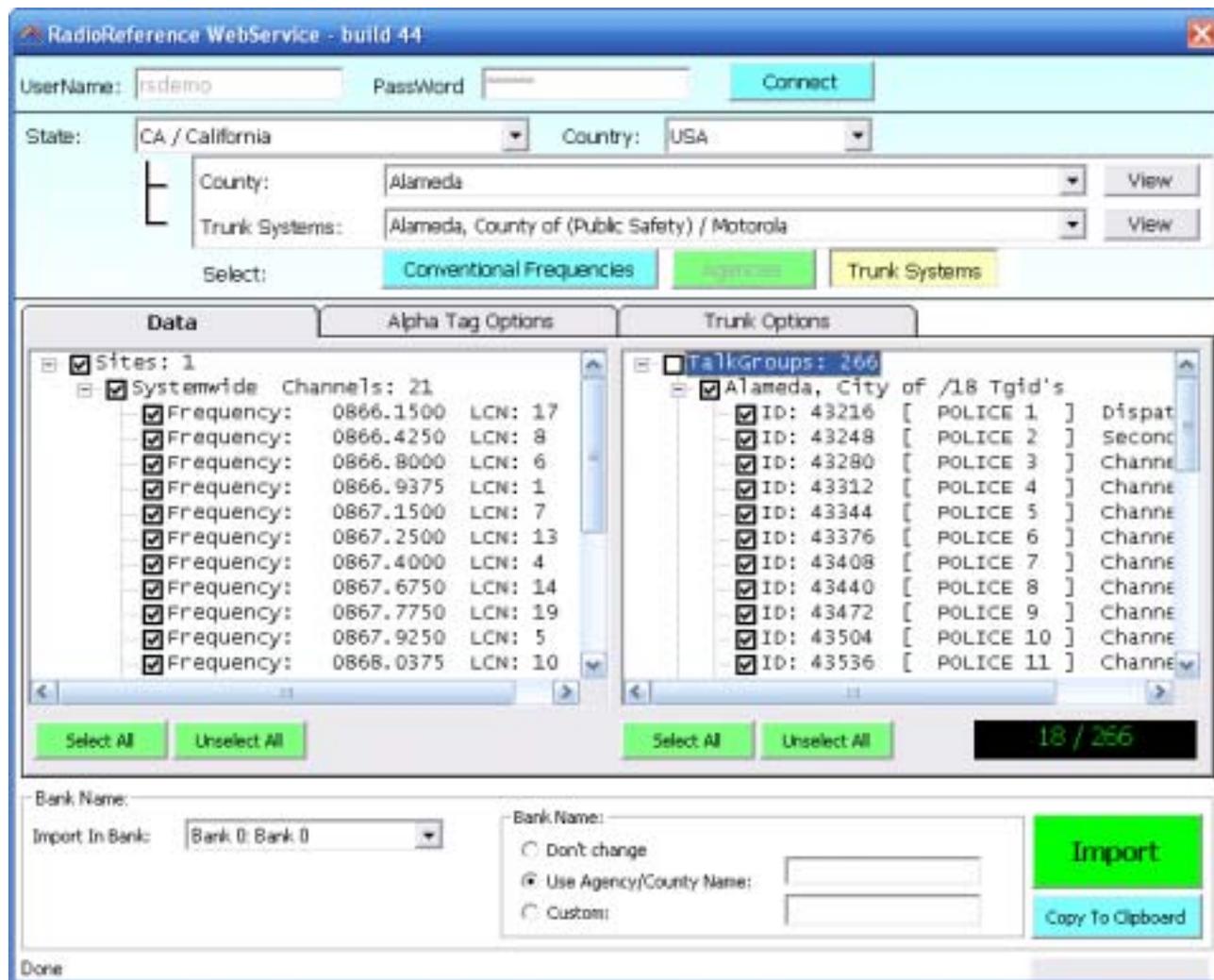


And now we can select the talkgroups, for example the 18 talkgroups for the City of Alameda, in the right pane :

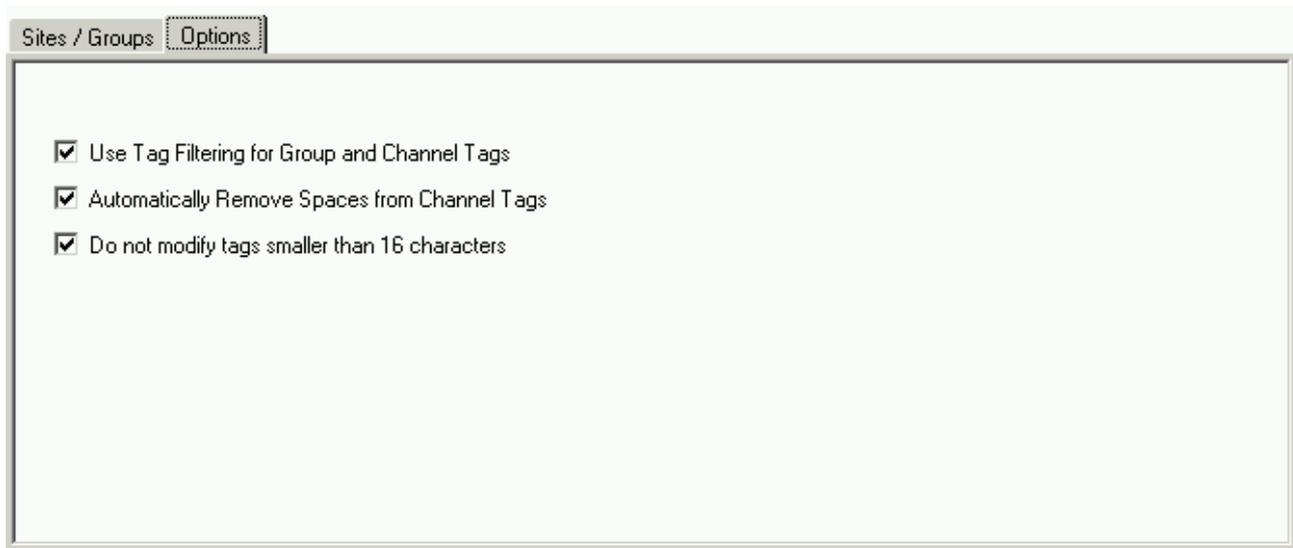


We can now import this in the software by pressing the Import button.

Please note that in demo mode you can only make two free imports. Any additional imports can only be made after a subscription and software license is purchased at www.radioreference.com/RadioShack



3.2 RadioReference Options:



1: Use Tag Filters:

This option uses an external file to automatically filter/replace text tags. You can edit the file in notepad and define your own 'filter' rules.

Locate 'tagfilter.txt' and open in notepad, here are some filter examples:

```
"East", "E"  
"West", "W"  
"North", "N"  
"South", "S"  
"Police", "PD"  
"Fire", "FD"  
"Tactical", "Tac"  
",", ""
```

So 'East' will be replaced by 'E' etc. The ; character will be removed. You can define up to 1000 rules to filter text.

2: Remove spaces, tick this box if you want the software to automatically remove spaces from group and channel names

3: Do not modify: if the tag is 16 characters or less the software will not modify it since it fits the available space

4. GPS latitude and Longitude search

ARC PATROL has a built in search option for GPS coordinates.

You can search for GPS latitude and longitude by:

- US street address
- US postal zip code
- County Centre
- Point Of Interest or Area of Interest
- 3 letter Airport code

IMPORTANT: this option requires a live internet connection.

4.1 Street Address:

Select US Street address and enter Street, City and State. Press Find GPS Data to locate the Latitude and Longitude for the selected address. Use COPY GPS to copy this information into ARC PATROL

GPS Latitude and Longitude Lookup

US Street Address: Street: 4700 Amen Carter BLV, City: Fort Worth, State: TX [Clear]

US Zipcode: Zipcode: 94089

County Centre: County Centre GPS data:

Place Of Interest: grand canyon

Airport 3 Letter Code: AMS

Find GPS data

Result of Search: Latitude: 32.831987, Longitude: -97.048834

[Copy GPS] [Show Map]

4.2 US Zip:

Select US Zip code and enter the 5 digits of the US zip code. Press Find GPS Data to locate the Latitude and Longitude for the selected zip code. Use COPY GPS to copy this information into ARC PATROL. The software will also display the City and State of the selected zip code.

GPS Latitude and Longitude Lookup:

US Street Address: Street: City: State: TX

US Zipcode: Zipcode:

County Centre: County Centre GPS data:

Place Of Interest:

Airport 3 Letter Code:

Result of Search: Latitude:
Longitude:
Sunnyvale; CA 94089

4.3 County Centre:

Select County Centre. Now select the county name from the list. Press Find GPS Data to locate the Latitude and Longitude for the selected county. Use COPY GPS to copy this information into ARC PATROL.

GPS Latitude and Longitude Lookup

US Street Address: Street: City: State: TX

US Zipcode: Zipcode: 94089

County Centre: County Centre GPS data: IL / Cook County

Place Of Interest: grand canyon

Airport 3 Letter Code: AMS

Result of Search: Latitude: 37.425119
Longitude: -122.017250
Sunnyvale; CA 94089

4.4 Place of Interest / Area of Interest:

Select Place of Interest. Now enter the POI or AOI. For example 'Grand Canyon' 'White house' or 'Pentagon'. Press Find GPS Data to locate the Latitude and Longitude for the selected search. Use COPY GPS to copy this information into ARC PATROL. The software will also display the County and State of the selected search.

GPS Latitude and Longitude Lookup:

US Street Address: Street: City: State: TX

US Zipcode: Zipcode: 94089

County Centre: County Centre GPS data: IL / Cook County

Place Of Interest: grand canyon

Airport 3 Letter Code: AMS

Result of Search: Latitude: 36.054885
Longitude: -112.122099
Grand Canyon National Park Coconino County; AZ

4.5 Airport code:

Select Airport 3 letter code. Now enter the unique 3 letter code like JFK, BOS AMS.

Press Find GPS Data to locate the Latitude and Longitude for the selected search. Use COPY GPS to copy this information into ARC PATROL. The software will also display the County and State of the selected search.

GPS Latitude and Longitude Lookup:

US Street Address: Street: City: State: TX

US Zipcode: Zipcode: 94089

County Centre: County Centre GPS data: IL / Cook County

Place Of Interest: yosemite

Airport 3 Letter Code: JFK

Result of Search: Latitude: 40.643711
Longitude: -73.790009

John F Kennedy Int'l Airport Queens County; NY 11430

4.6 Find a US zip code

If you are traveling and want to reprogram the HP-1 using a zip code you can use ARC PATROL to find the zip code of your location.

Select US Street Address and enter a search query.

For example we are at Time Square in New York and want to reprogram the HP-1. After entering the street, city and State press Find GPS Data. The software will now show the zip code. In this example the zip code is 10036 and we can now enter the new zip code in the HP-1.

GPS Latitude, Longitude and Zipcode Lookup:

US Street Address: Street: time square
City: new york
State: NY Clear

US Zipcode: Zipcode: 94089

County Centre: County Centre GPS data:

Place Of Interest: yosemite

Airport 3 Letter Code: AMS

Find GPS data

Result of Search: Latitude: 40.759520 Copy GPS
Longitude: -73.984409 Show Map
Zip code: 10036

Times Sq

5 General information and troubleshooting

5.1 Revision history:

ARC PATROL V0.80 –0.99: beta versions

ARC PATROL V1.00 build 1:

- first official release

ARC PATROL V1.01 build 1:

- fixed up/down functions in tg editor
- fixed problem Mot splinter systems
- fixed dbase version detect
- fixed update download link
- added default service type setting in software setup

ARC PATROL V1.01 build 2:

- fixed Audio Type problem when creating new talkgroup
- fixed RR Agency import problem service tags
- fixed RR import problem when importing more than 20 departments
- fixed saving avoid flag problem

5.2 Troubleshooting

N/A